

# GDC<sup>®</sup>

## WALK TALL MY FRIENDS

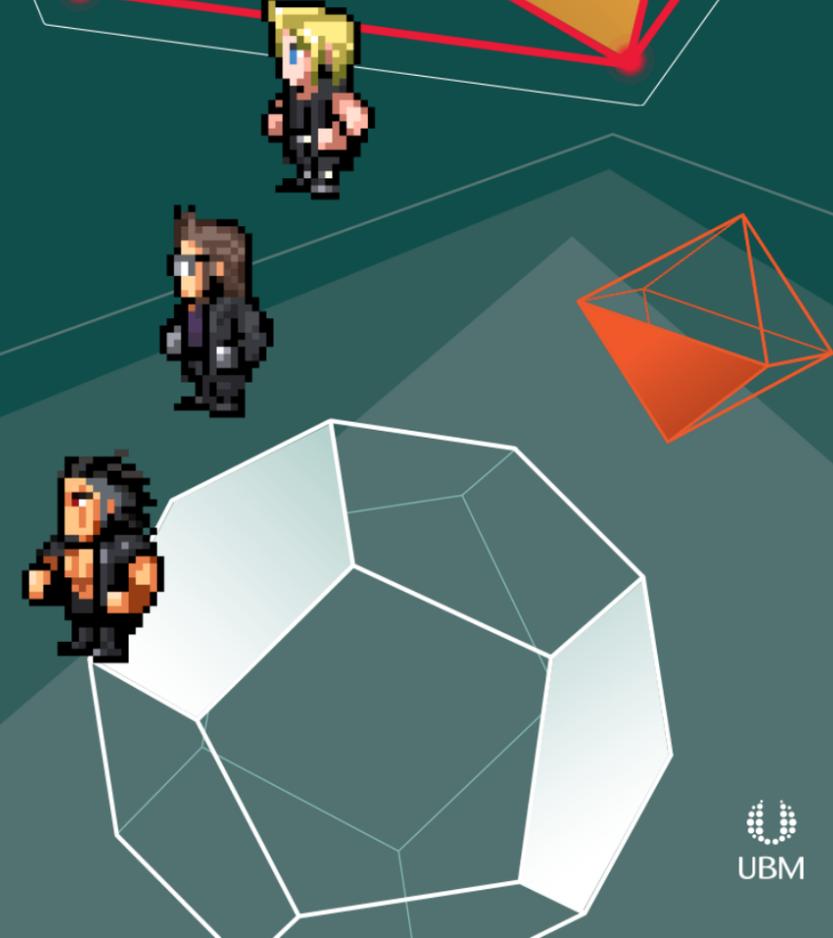
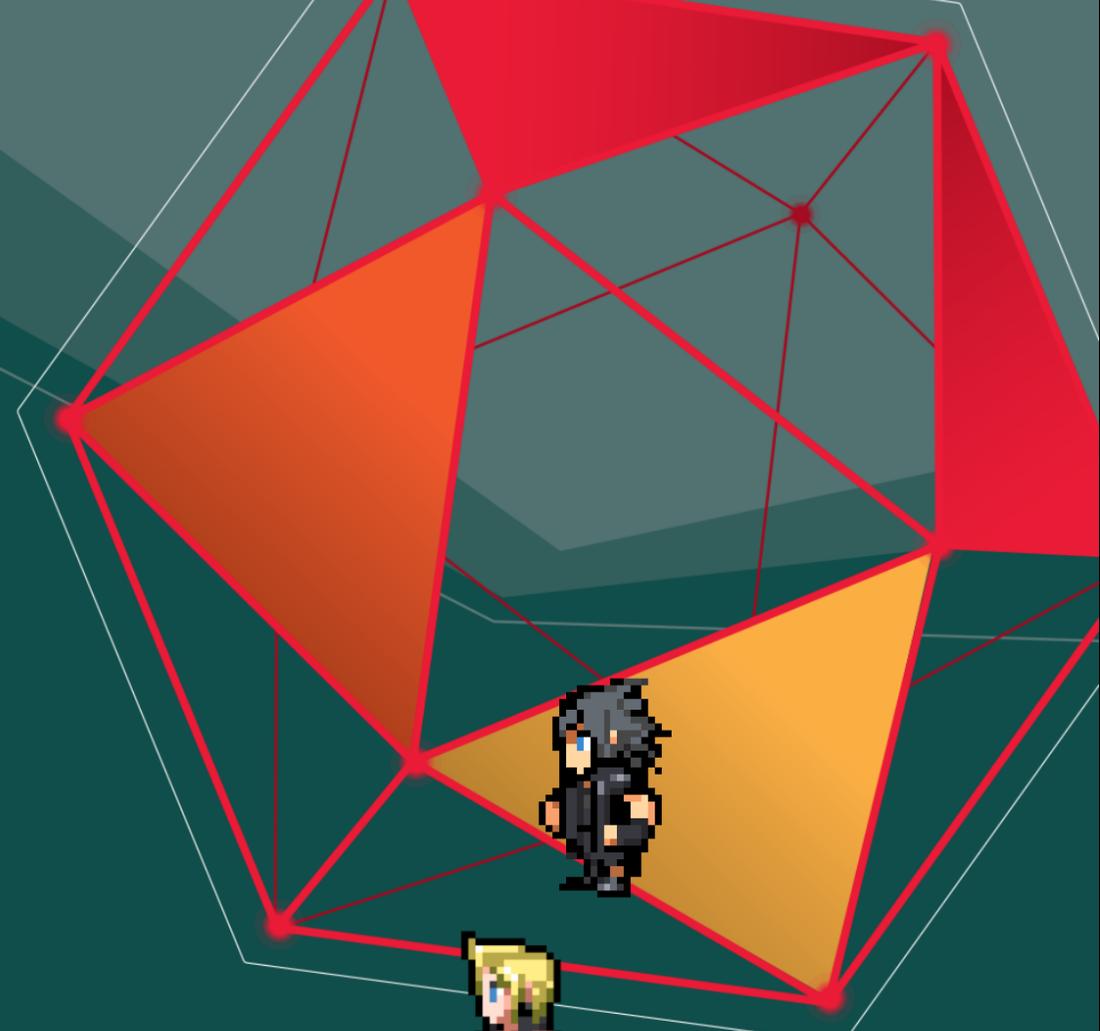
Giving Life to AI-Buddies in FINAL FANTASY XV

Prasert "Sun" Prasertvithyakarn  
FINAL FANTASY XV Lead Game Designer

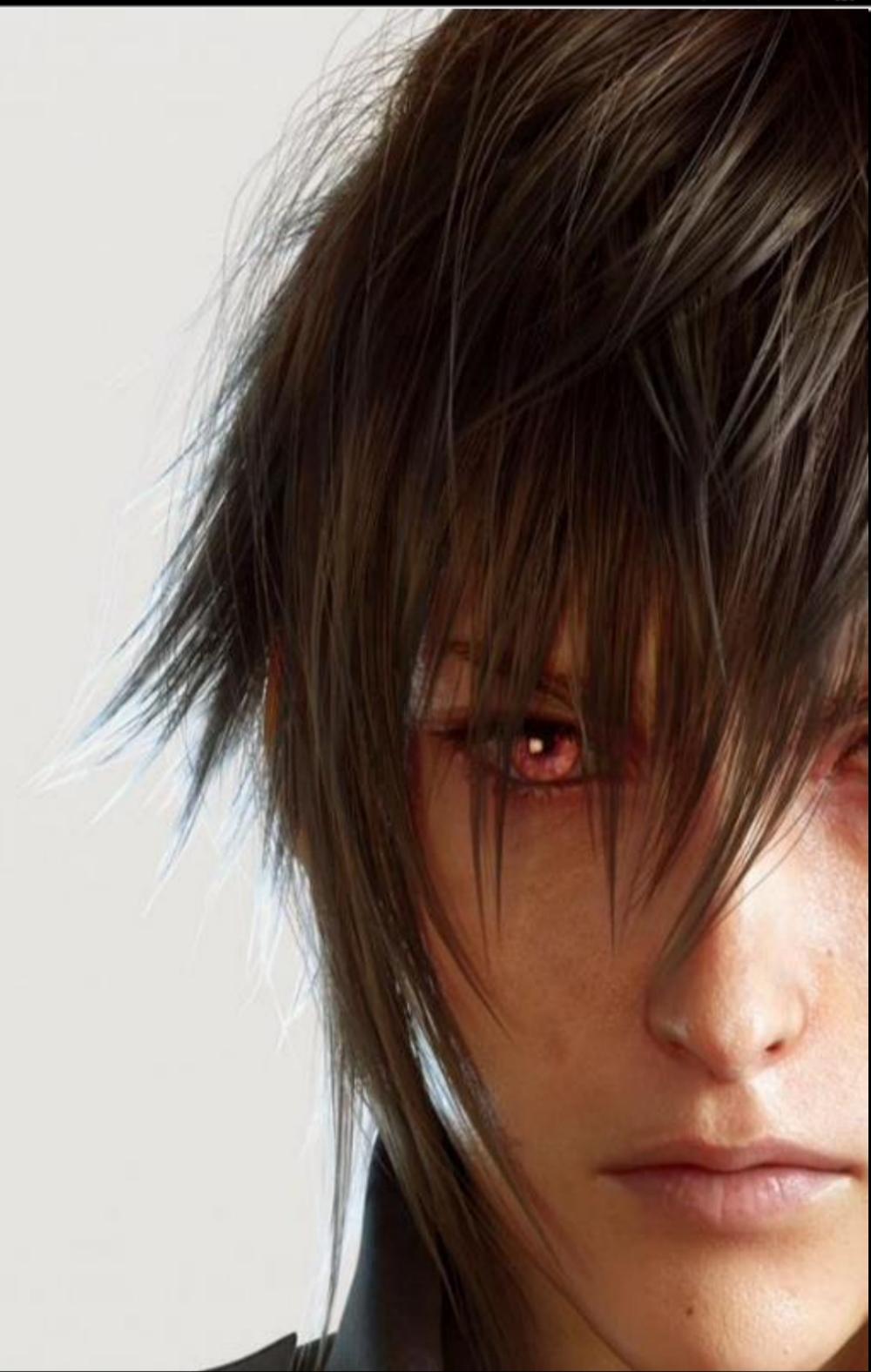
Business Division

SQUARE ENIX<sup>®</sup>

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# WHO IS IN CHARGE OF CHARACTER DESIGN?



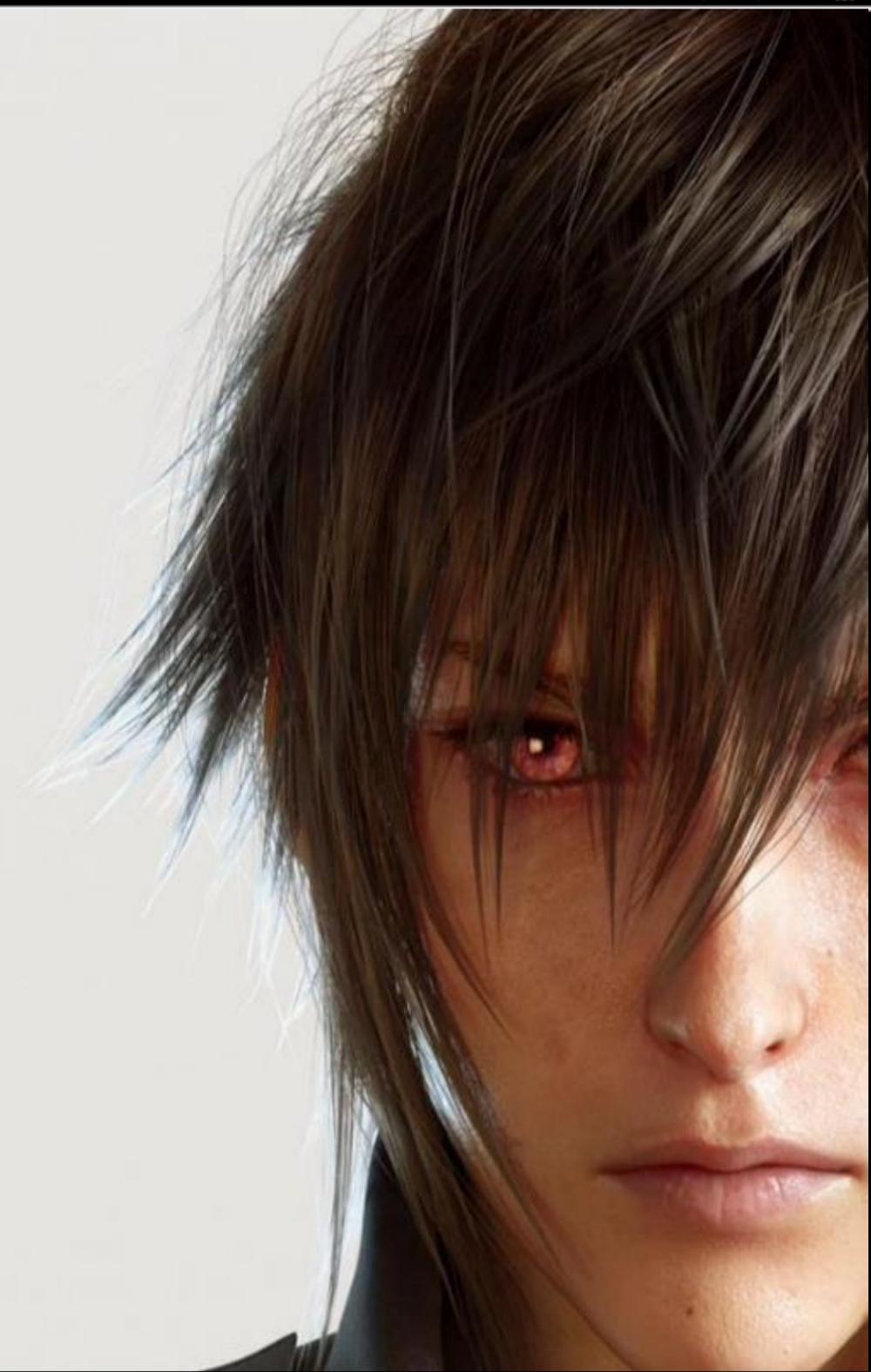
**A character artist?**

**A character 3D modeler?**

**A scenario writer?**



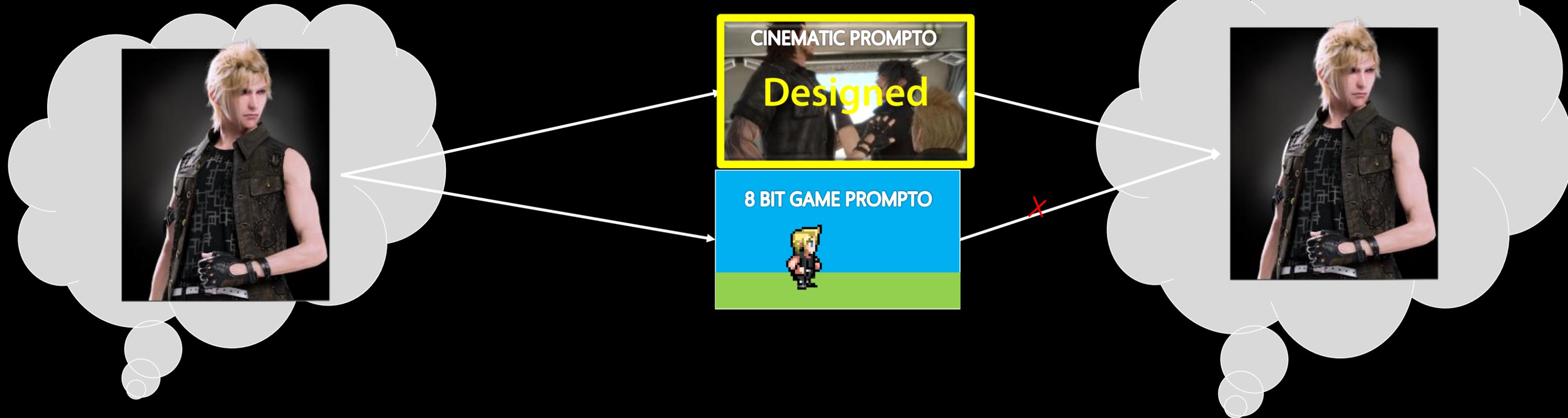
**There are new  
other answers.**



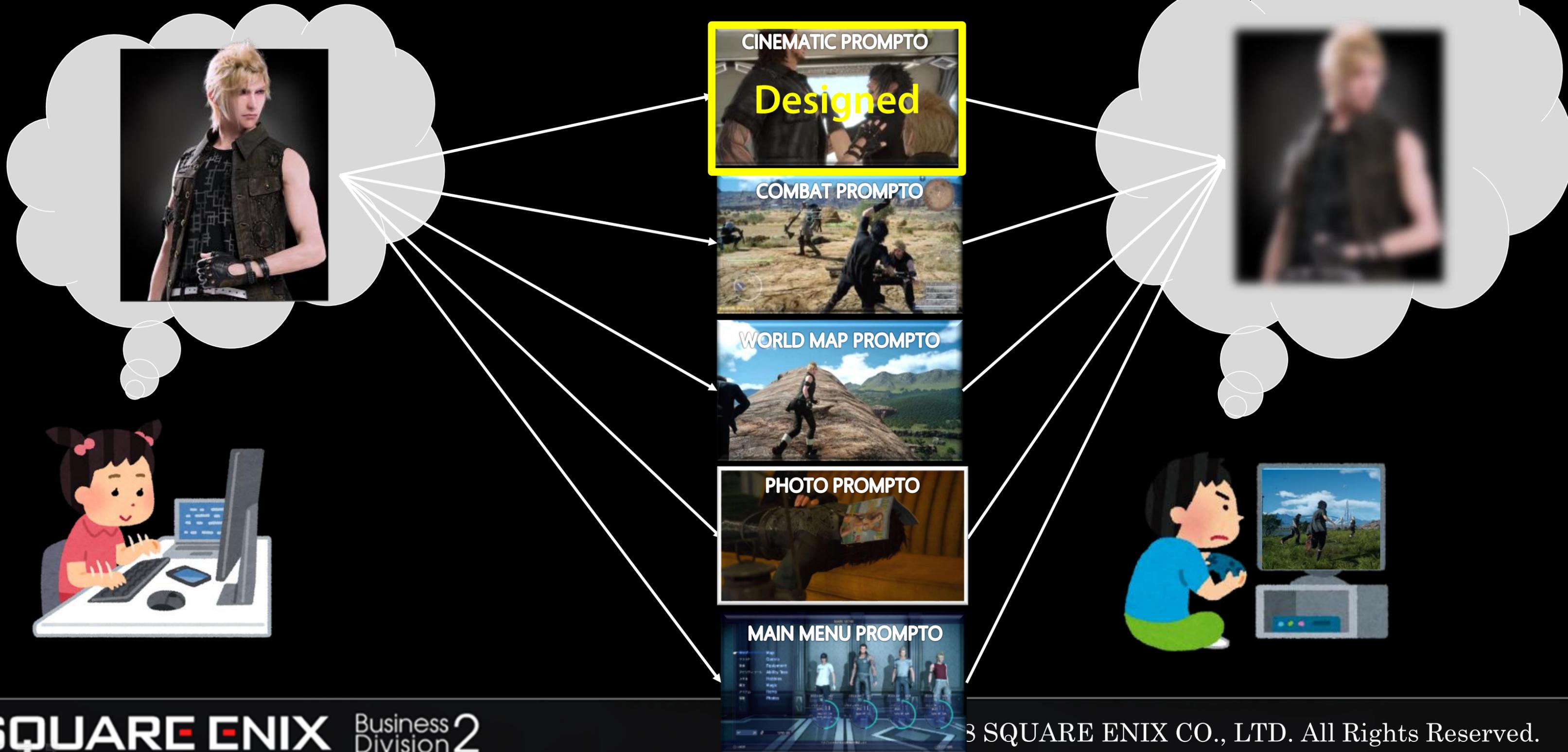
# How do you experience a character?



# How do you experience a character?



# How do you experience a character?



~~CHARACTER DESIGN~~

CHARACTER EXPERIENCE DESIGN

# CX

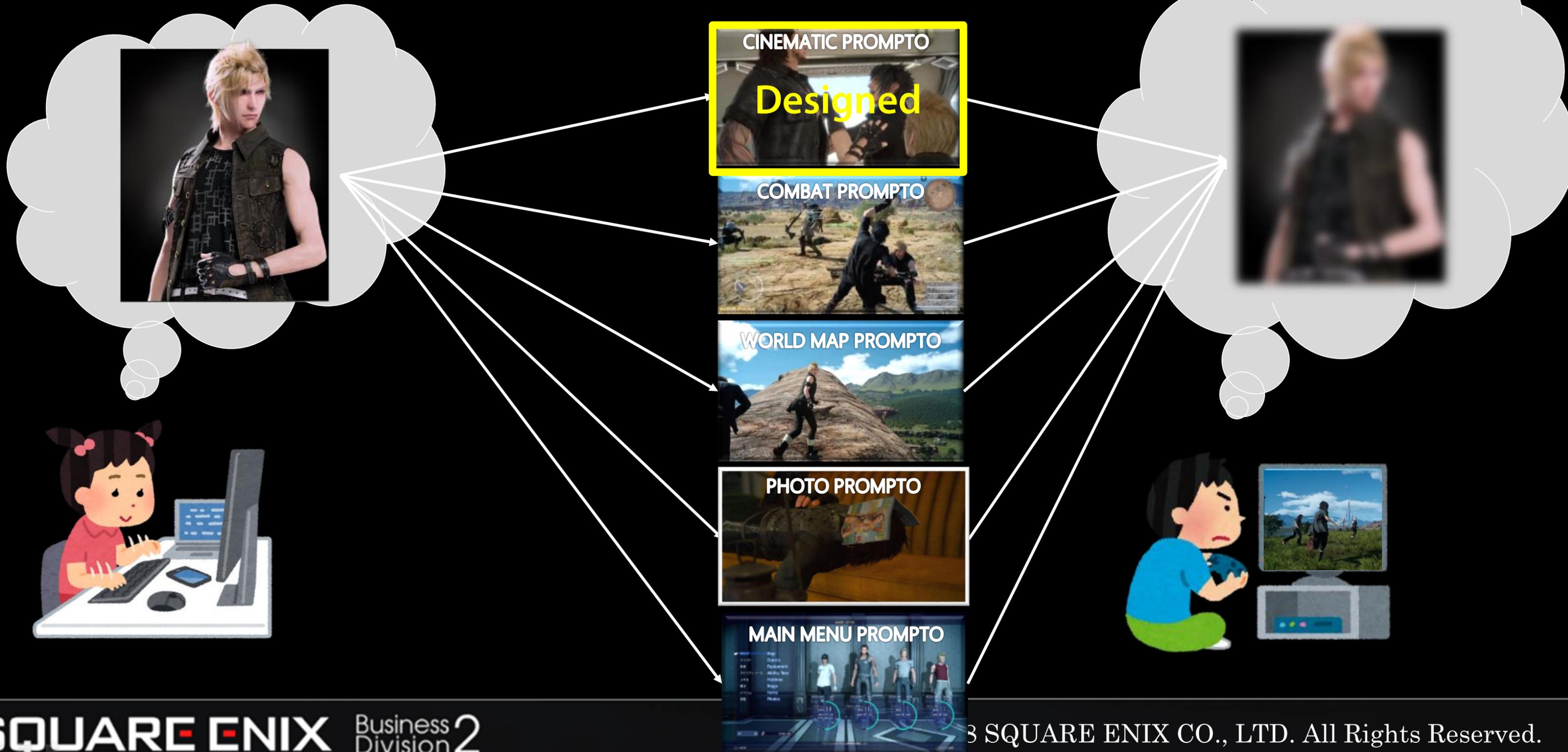
## Character Experience

= An actual way the audience perceive character in media

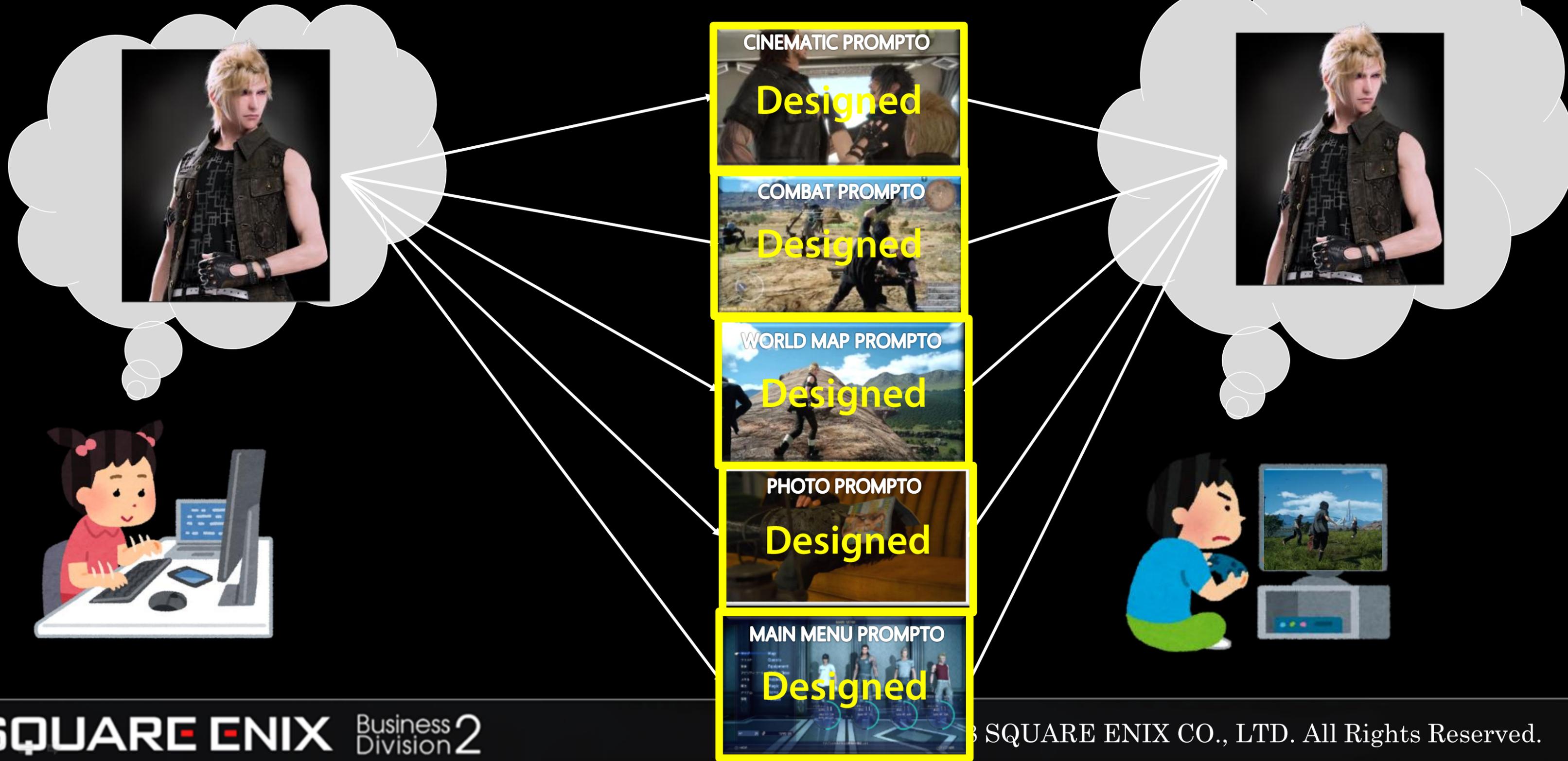
CX design emphasizes that the way the audience can engage characters in game has more depth and varieties than it used to be.

While we are blessed with more engaging storytelling approaches, we are taking the risks of ruining all the experience caused by a poor design.

# Character Design



# Character Experience Design



# WALK TALL MY FRIENDS

Giving Life to AI-Buddies in FINAL FANTASY XV



# Prasert "Sun" Prasertvithyakarn

FINAL FANTASY XV Lead Game Designer

Business Division

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Home country: Thailand  
Graduated in music-related AI field.  
Specialized in Emotional AI & Game Design



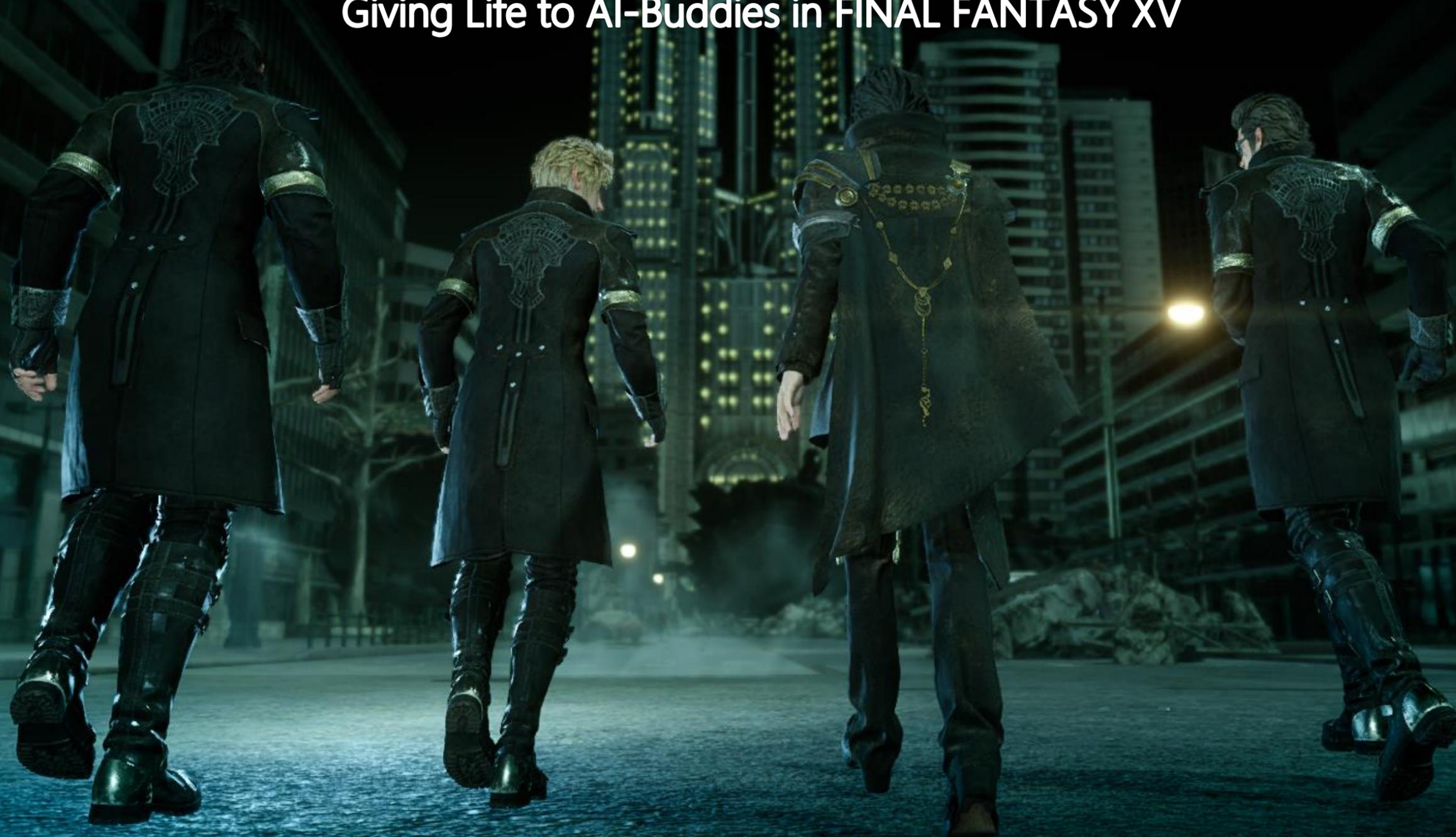


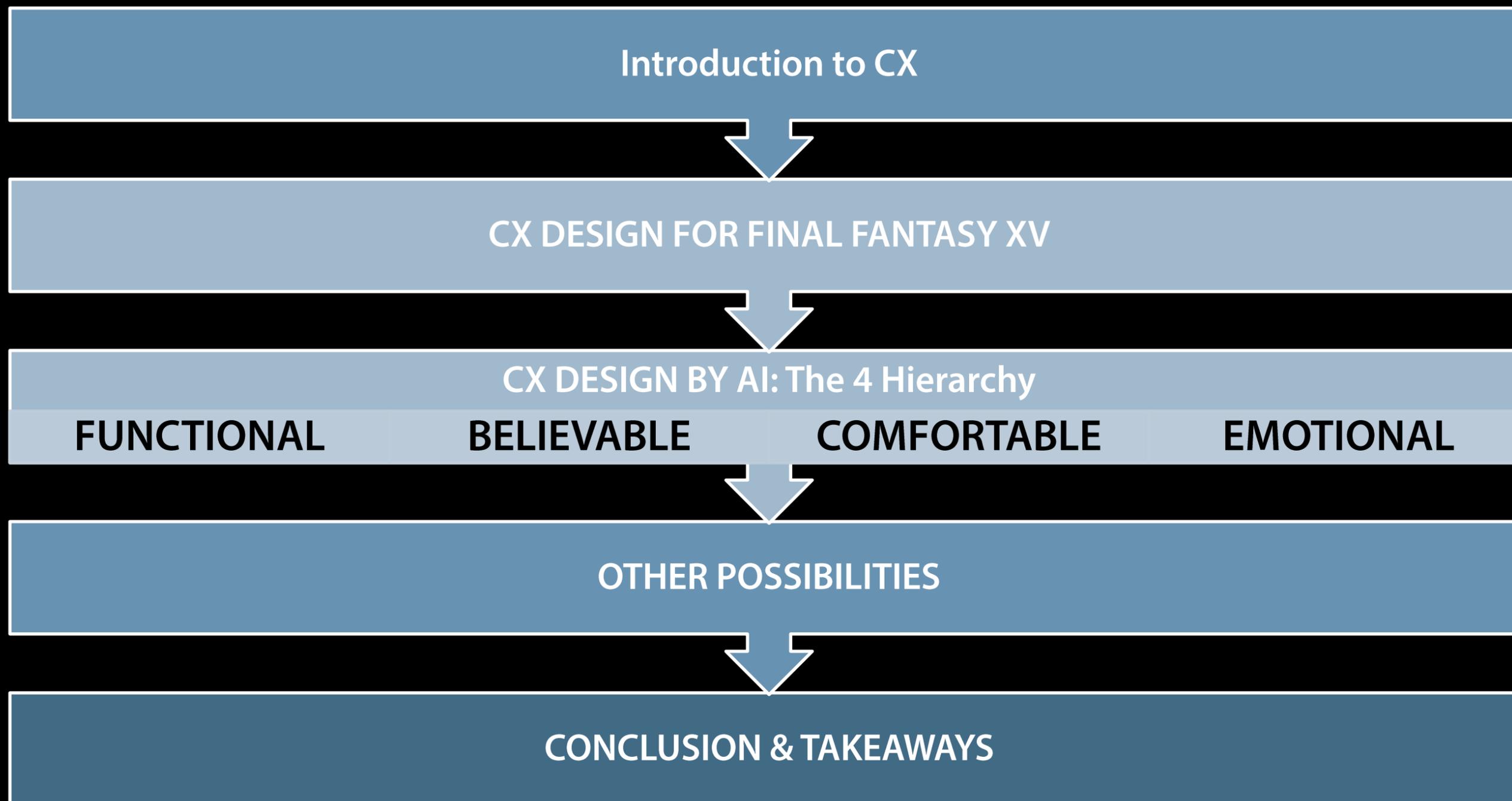
# PROMPTO's FACEBOOK

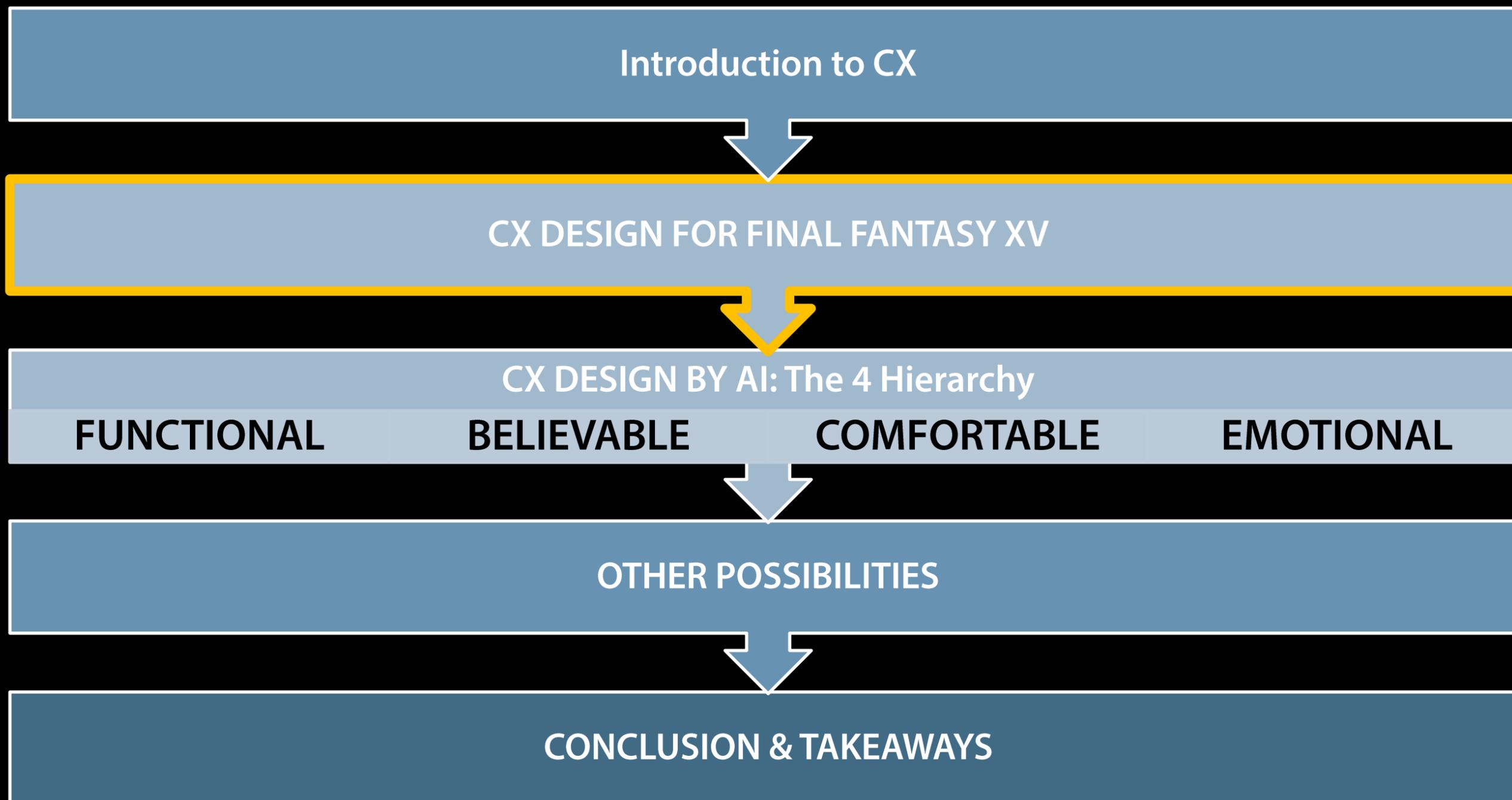
How A Buddy-AI Auto-snapshots your Adventure In FFXV

# WALK TALL MY FRIENDS

Giving Life to AI-Buddies in FINAL FANTASY XV

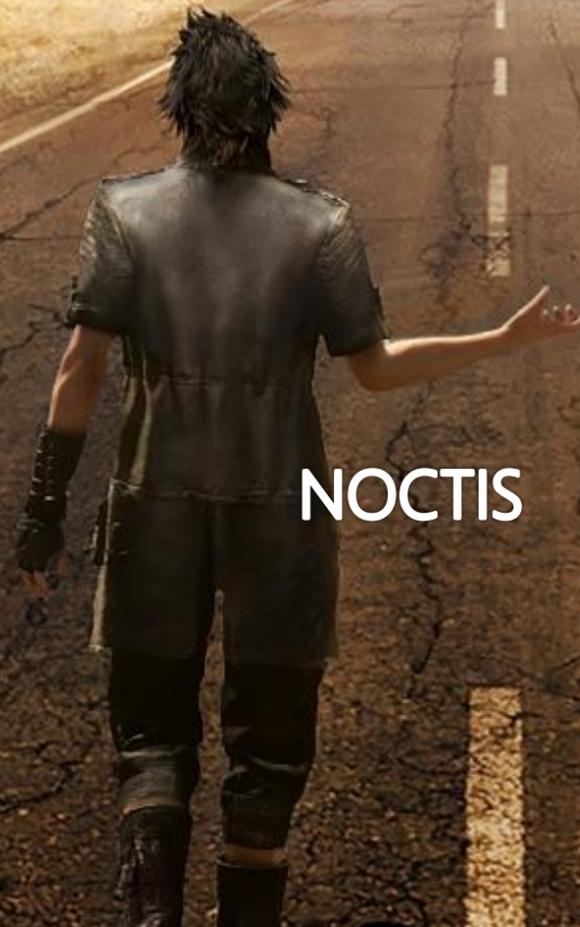






# CX DESIGN FOR FINAL FANTASY XV

THE BEGINNING OF OUR JOURNEY



# CX DESIGN FOR FINAL FANTASY SERIES: FELLOWSHIP



## FINAL FANTASY XV

- First FINAL FANTASY party without a female characters.
- First FINAL FANTASY party without a newly joined member.



ADVERSITY? or OPPORTUNITY?

I say

OMG, this is a chance  
for a brand new CX!



REMEMBER THE POPULAR GROUP IN YOUR HIGH SCHOOL?

BE THEM!

Fellowship to  
Brotherhood!

# What kind of brotherhood we are looking for?

Cool on the outside: Silly stuffs, fun stuffs, party!... Anything!



# What kind of brotherhood we are looking for?

Cool on the outside: Silly stuffs, fun stuffs, party!... Anything  
Cool on the inside: Strong bonds, trust, dedication.





# BROTHERHOOD ROADTRIP

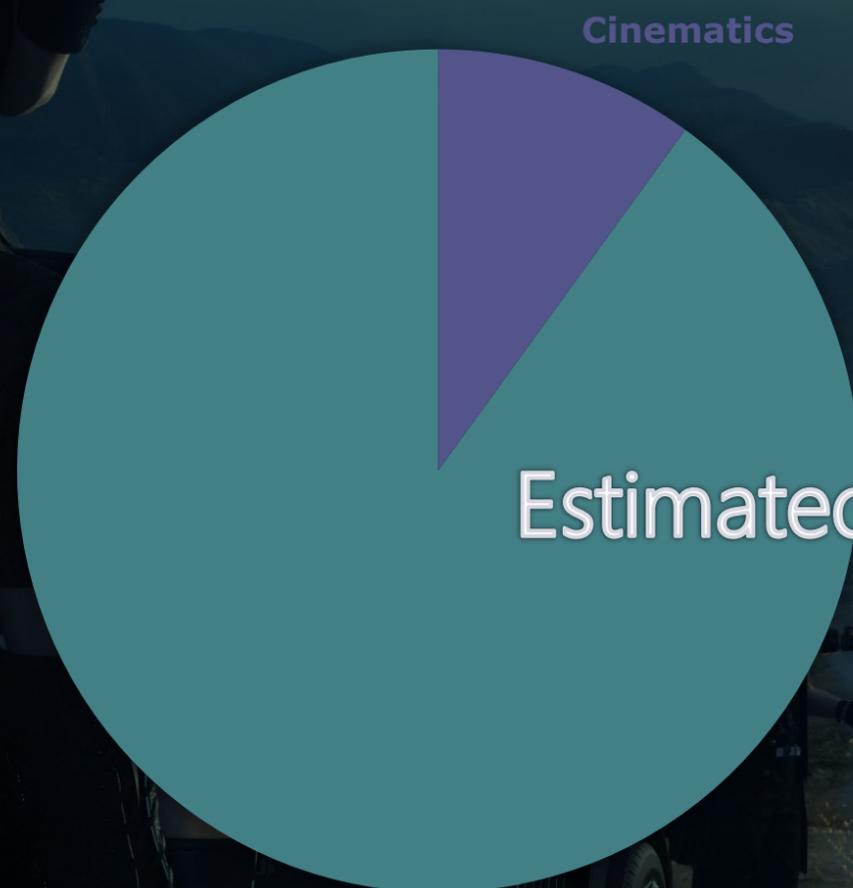
FINAL FANTASY XV's concept



**YOU MEAN, LOTS A CINEMATICS?**

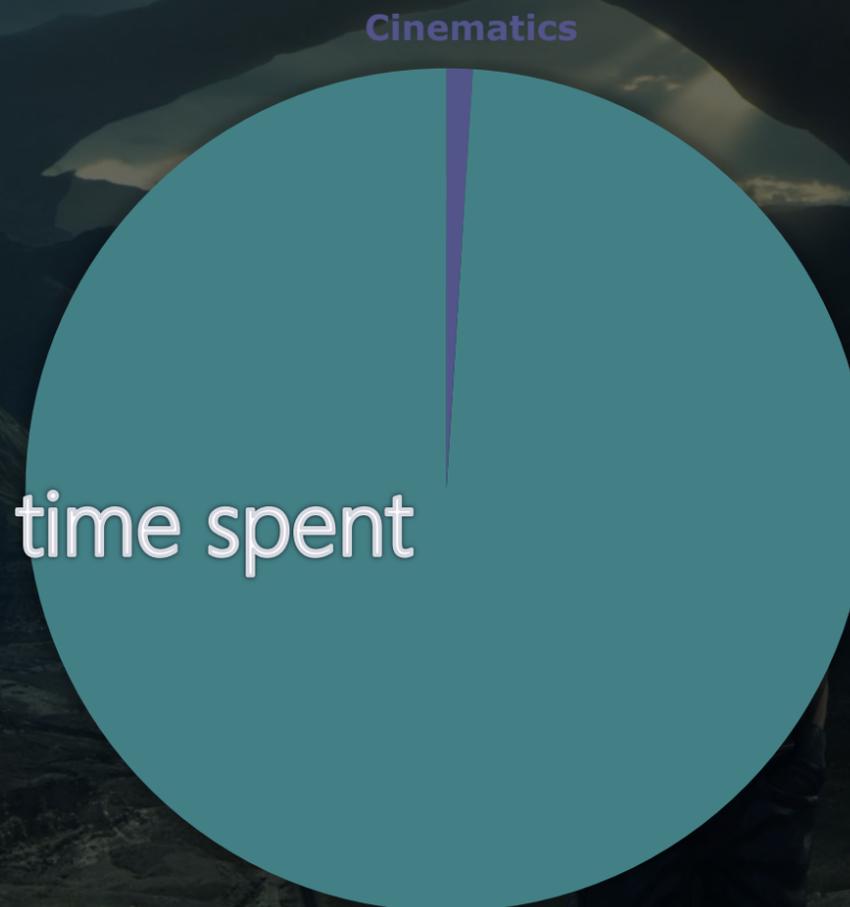
# NO, NOT BY CINEMATICS!

## LINEAR GAME



Realtime  
gameplay

## OPEN WORLD GAME



Realtime  
gameplay

Estimated proportion of time spent

# Cinematics

## Real Time Level Event!

# Our First Test:

Just try to having them moving together with the player character



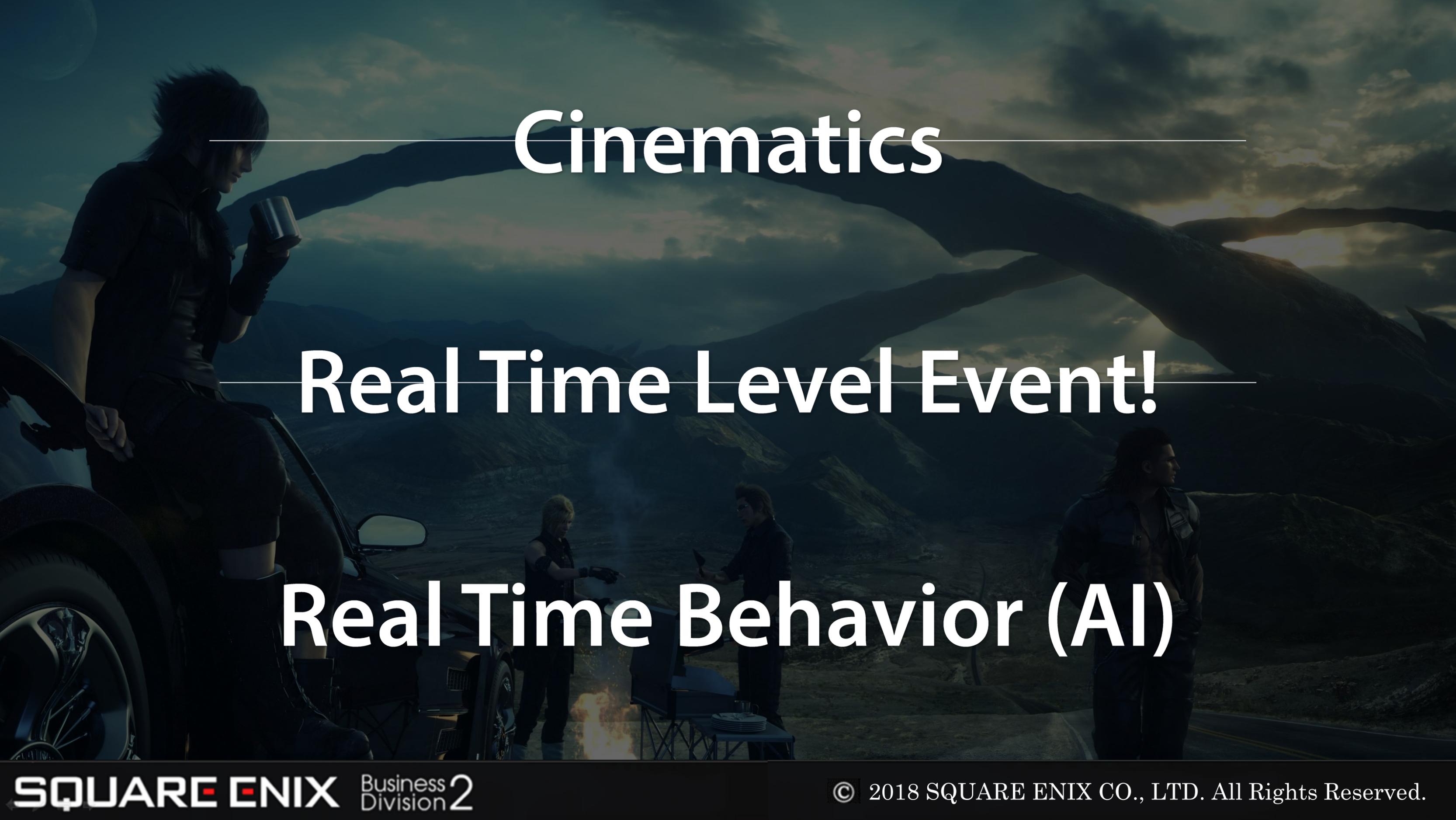
# SENSE OF BELONGING



# Our Second Test:

Do we really need an event? How do we define event?



A cinematic scene from Final Fantasy VII Remake. A character with long black hair is sitting on the back of a dark-colored car, holding a white mug. The car is parked on a road in a vast, hazy desert landscape under a sunset sky. In the background, other characters are visible near the car, and a small fire is burning on the ground. The overall mood is serene and cinematic.

# Cinematics

## Real Time Level Event!

## Real Time Behavior (AI)

# THE ART OF NOT SAYING IT OUT LOUD



“ A NARRATIVE CAN BE ESTABLISHED  
THROUGH WHAT IS LEFT UNSAID  
RATHER THAN WHAT IS EXPLICITLY STATED ”

*YINTING HE, 2018*





# BUDDY SYSTEM & AI

A TEAM EXCLUSIVELY FOR CX

# FFXV'S BROTHERHOOD CONCEPT

# WHERE YOU BELONG

Each buddy in the gang should be full of **charms**, yet **believable as a human being**. Their **uniqueness** and **distance in relationship** will create the chemicals that will add **drama** to the whole journey experience.

They should convince you that they are real,  
Make you feel **fun, safe and strong** when they are with you.  
Leaving you **weak and lonely** when they are not around.

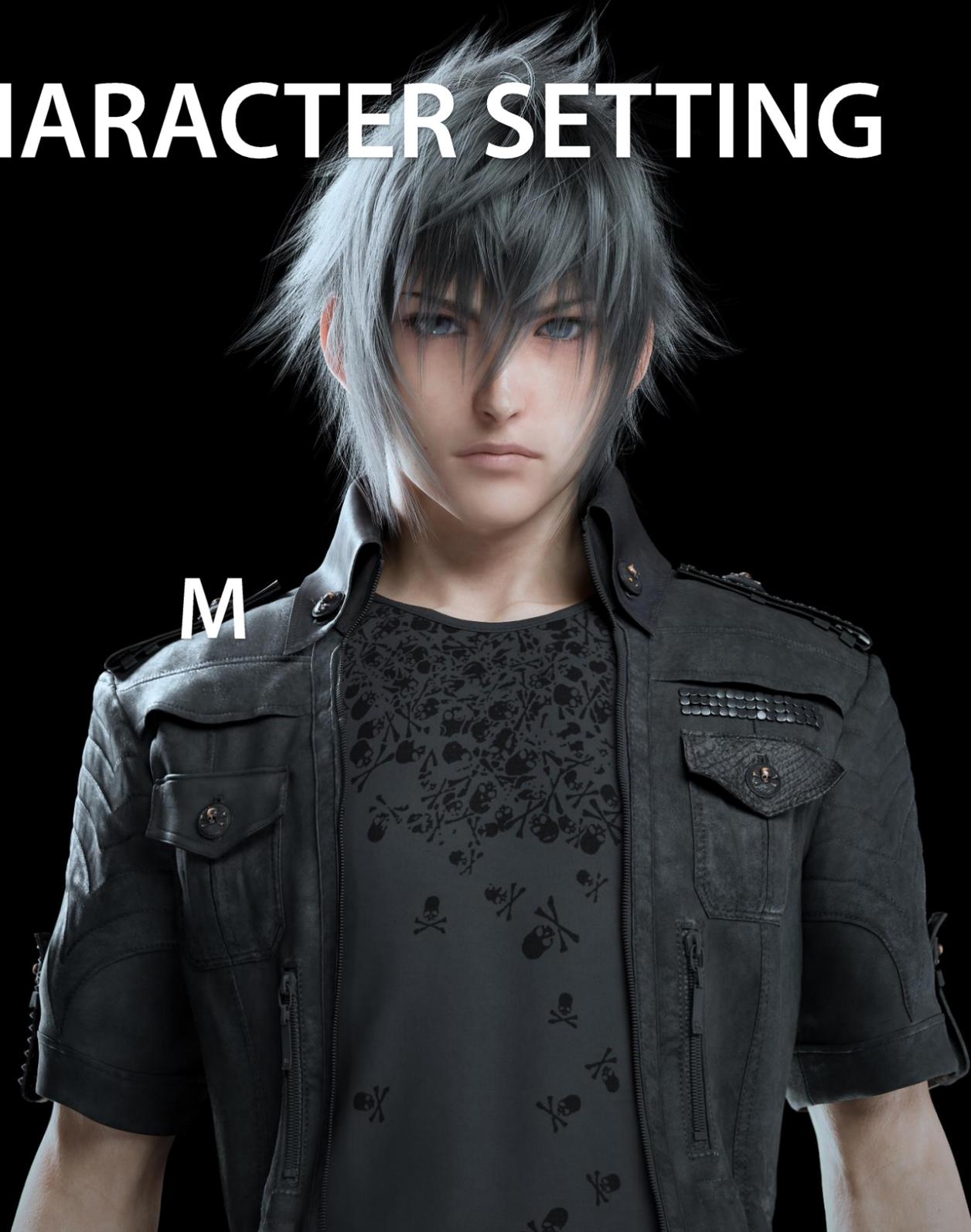
**Alive as a "group"**, they will invite you in as the 5<sup>th</sup> buddy, to be a part of them, proposing **a place where you want to come back to**, arousing your **desire to spend more time together** with them.

# THE PROCESS OF CX DESIGN

# DON'T STOP AT CHARACTER SETTING

BIOGRAPHICAL INFORMATION	
AGE	20 <sup>[1]</sup> (born October 25th) <sup>[2]</sup>
AFFILIATION	Lucis
(S)	
PHYSICAL DESCRIPTION	
RACE	Human
GENDER	Male
HEIGHT	173 cm (5'8") <sup>[3]</sup>
HAIR COLOR	Blond
EYE COLOR	Blue
GAMEPLAY DETAILS	
TYPE	Player character
WEAPON	Firearms, Machinery Signature weapons: Handgun, Lion Heart

M



# CHARM DESIGN

**CAN YOU EXPLAIN THE REASONS  
WHY THE PLAYERS ARE GOING TO  
LIKE YOUR CHARACTERS?**

OUR CHARM DESIGN TECHNIC  
**STEREOTYPE + 2**



# CHARM DESIGN by 3 Keywords

(Stereotype + 2)

# Charm Design (Prompto)

## Wrong Keyword Lists

A Happy go lucky

A Playboy

A Goof



At first glance

Charm Keyword 1 :WYSIWYG

A Mood Maker

Cute

Hardworking

A Puppy

Photogenic

Friendly

Extrovert

A couple of hours with him

Charm Keyword 2 : A gap

A Geek/ an OTAKU

A Machinery Geek

A Game Otaku

A Camera Geek

Anime Otaku

Dexterous

A City boy

When you think you know him

Charm Keyword 3 :Deep down

Concealing & Sentimental

Emotional Sensitive

Introvert

Obesophobia

Escapist

Lacks confident

Anxious

Secret keeping

A thinker

Congratulations!

You've learned the true Prompto  
Now you're his BFF



CHANGE KEYWORDS into FEATURES

# Charm Design (Prompto)

## Wrong Keyword Lists

A Happy go lucky

A Playboy

A Goof



At first glance

Charm Keyword 1 :WYSIWYG

A Mood Maker

Running and jumping around in the combat.  
Sings a victory fanfare times to times  
Show his affection to chocobo every time he can  
Selfies a lot and ask everyone to do it  
Secretly do training times to times.

A couple of hours with him

Charm Keyword 2 : A gap

A Geek/ an OTAKU

Using machine and guns in battle.  
Links everything along the journey to game.  
Always whine about outdoor life, camping getting dirty.  
Always having his camera by his side.

When you think you know him

Charm Keyword 3 :Deep down

Concealing & Sentimental

Afraid of eating late (an gain weight)  
Sometimes just standing and staring at the sky alone.  
In times of trouble takes leadership  
Conceals his worries that he are not worth travelling along  
Conceals his birth and his past.

Congratulations!

You've learned the true Prompto  
Now you're his BFF



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FIND CHANNELS to ACTUALIZE FEATURES

# Charm Design (Prompto)

Charm Keyword 1: WYSIWYG

A Mood Maker

A couple of hours with him

Charm Keyword 2: A gap

A Geek/ an OTAKU

When you think you know him

Charm Keyword 3: Deep down

Concealing & Sentimental

Running and jumping around in the combat.

Sings a victory fanfare times to times

Show his affection to chocobo every time he can.

Selfies a lot and ask everyone to do it

Secretly do training times to times.

Using machine and guns in battle.

Links everything along the journey to game.

Play games whenever he has a chance

Always whine about outdoor life, camping getting dirty.

Always having his camera by his side.

Afraid of eating late (an gain weight)

Sometimes just standing and staring at the sky alone.

In times of trouble takes leadership

Conceals his worries that he are not worth travelling along with.

Conceals his birth and his past.



Photo system & Photo AI



Camp System & Camp Scene



Real time combat



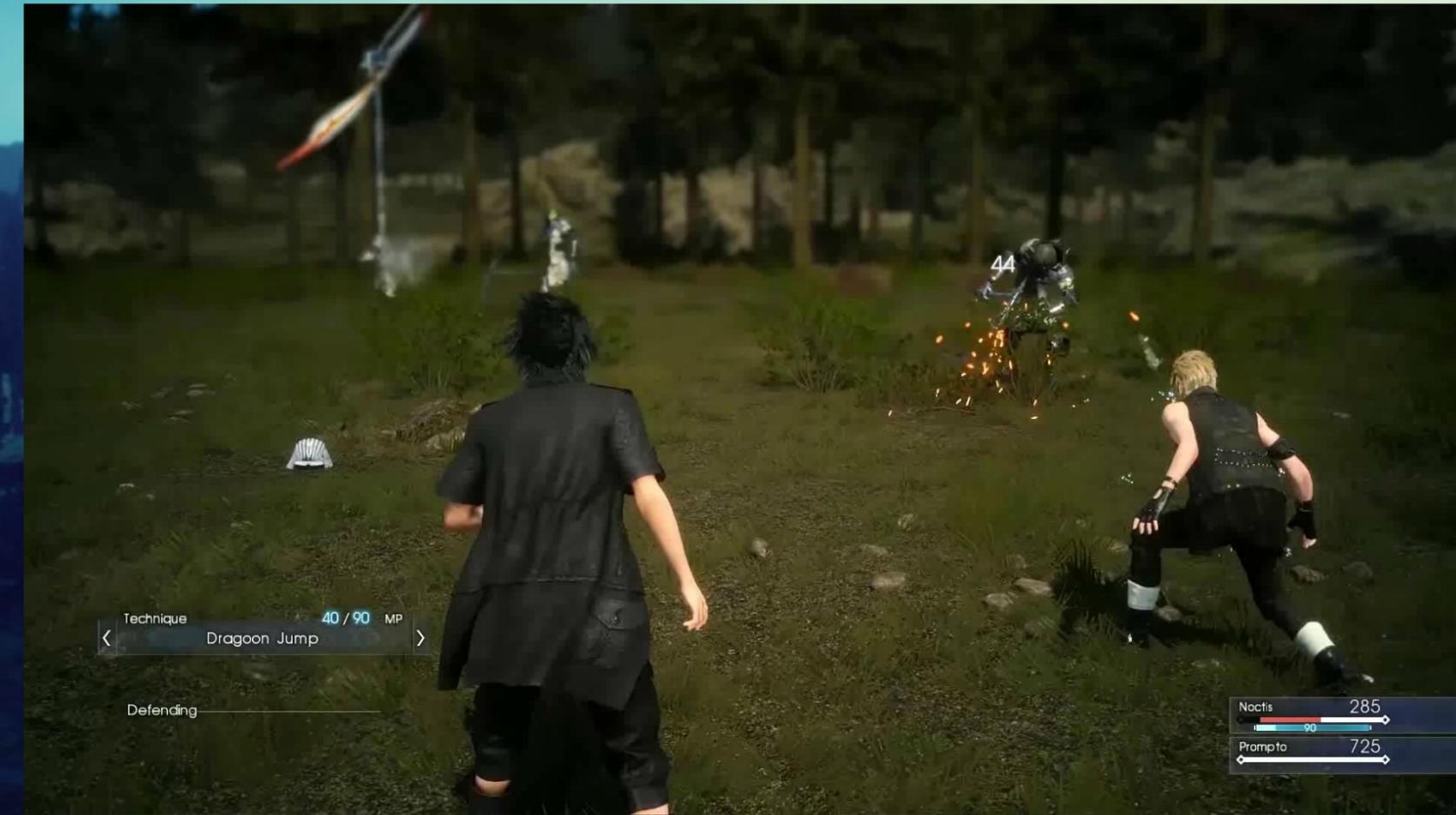
Real time Non combat

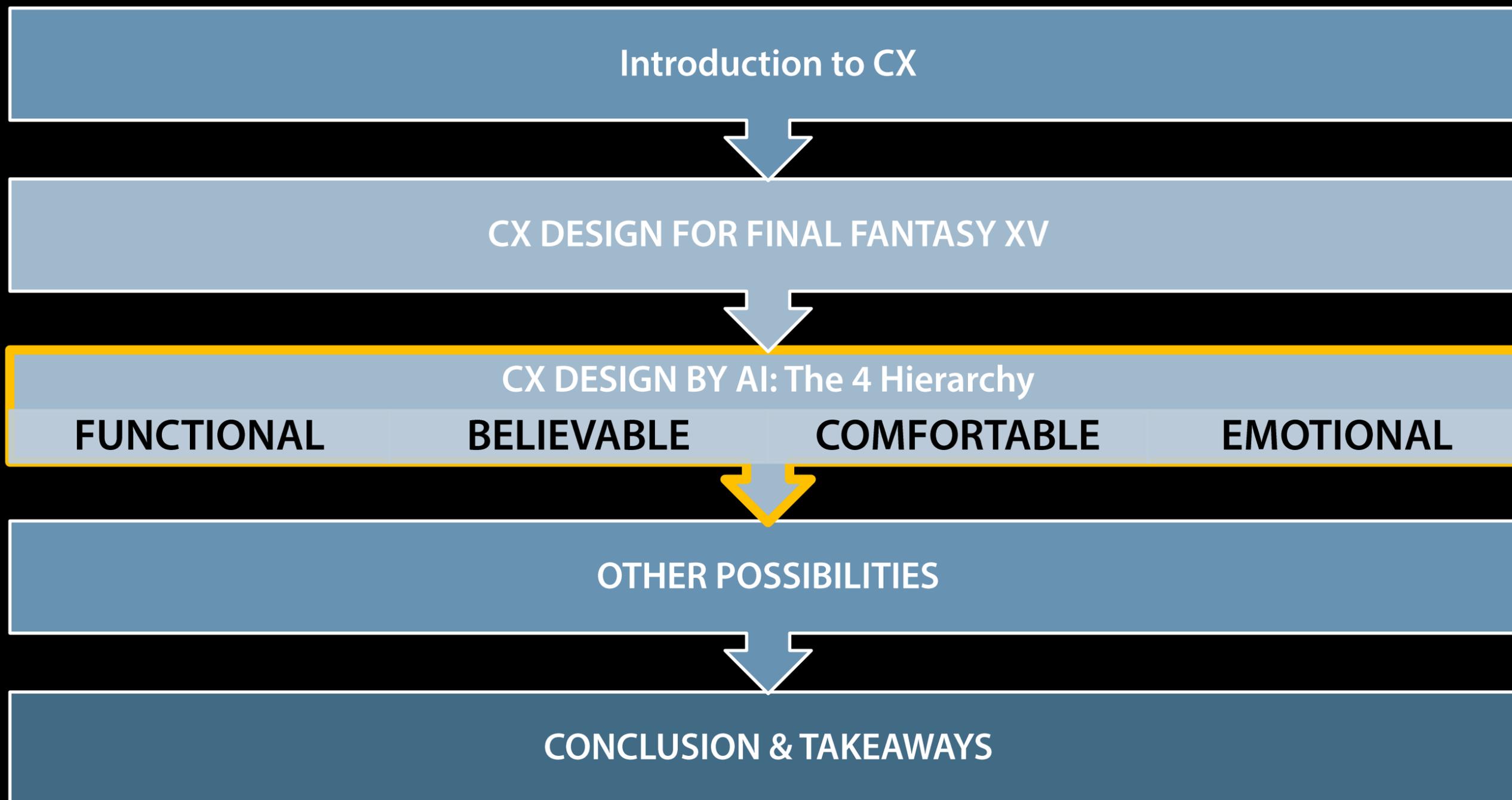


Cinematics

# Let the AI tell you the story

Prompto is hyper-active and lively!





# CX DESIGN BY AI

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4 Hierarchy of properties for engaging buddy-AI



# 4 HIERARCHY OF PROPERTIES FOR ENGAGING BUDDY-AI



**4. ARE THEY EMOTIONAL?**



**3. ARE THEY COMFORTABLE ?**



**2. ARE THEY BELIEVABLE ?**



**1. ARE THEY FUNCTIONAL ?**

# 1. ARE THEY FUNCTIONAL ?

4 Hierarchy of properties for engaging buddy-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



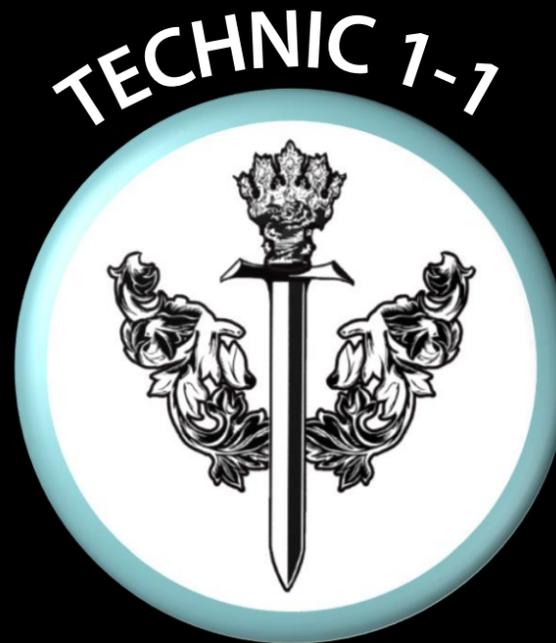
2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?

# FUNCTIONAL VALUE vs EMOTIONAL VALUE

**You mean to make the buddy-AI strong?**



# WISELY VISUALIZE THEIR FUNCTIONAL VALUE

---

Make a Good Use of Game Design Approach

# WISELY VISUALIZE THEIR FUNCTIONAL VALUE

Make a Good Use of Game Design Approach



Link them to a system/ feature.  
Or create a new system for them!

# 2. ARE THEY BELIEVABLE ?

4 Hierarchy of properties for engaging buddy-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?



# DO NOT INTERRUPT THE MAGIC SHOW

---

Never Ever Allow Any Chances to Remind the Players They're Just a Doll

**C'MON IT'S JUST A GAME CHARACTER**

# DO NOT INTERRUPT THE MAGIC SHOW

Never Ever Allow Any Chances to Remind the Players They're Just a Doll

Wrong: We have no costs for implementation

Right: How would a real human react?





# DO NOT OPTIMIZE ANIMATIONS

---

USELESS ANIMATIONS ARE VALUABLE WHEN PLAYED AT THE RIGHT TIME

# ARTIFICIAL USELESSNESS

Focus More on the Approach, Not Only the Outcome



# THE LINK WITH THE WORLD

Use character to express the world. Use the world to create character.



# 20 SECONDS ANIMATION

A New Approach to Smooth Character Animation

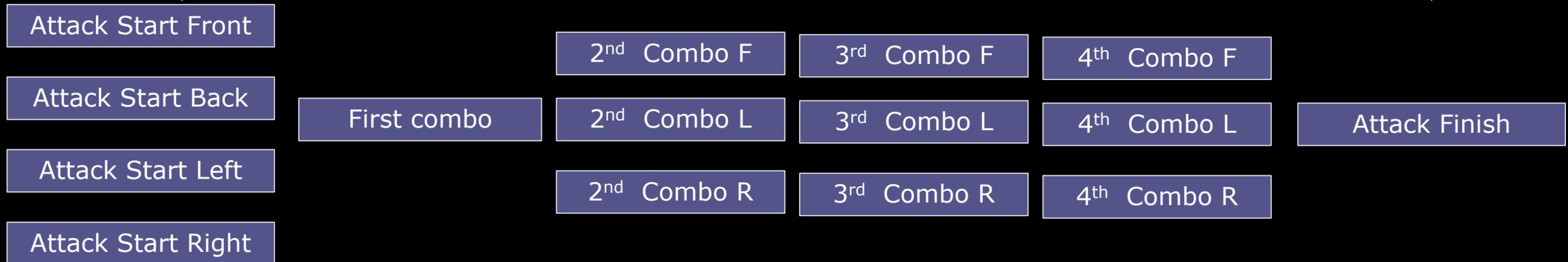


# 20 SECONDS ANIMATION

A New Approach to Smooth Character Animation

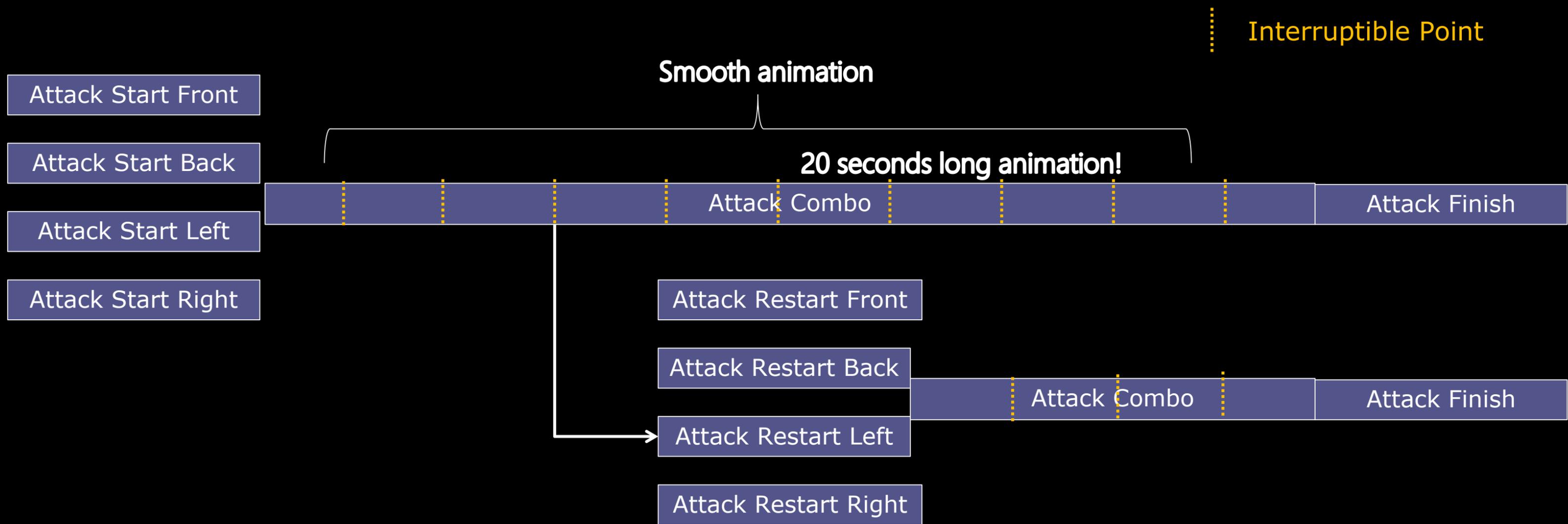
## A Classic approach

unsmooth animation



# 20 SECONDS ANIMATION

A New Approach to Smooth Character Animation



# 20 SECONDS ANIMATION

A New Approach to Smooth Character Animation



# 3. ARE THEY COMFORTABLE ?

4 Hierarchy of properties for engaging buddy-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?

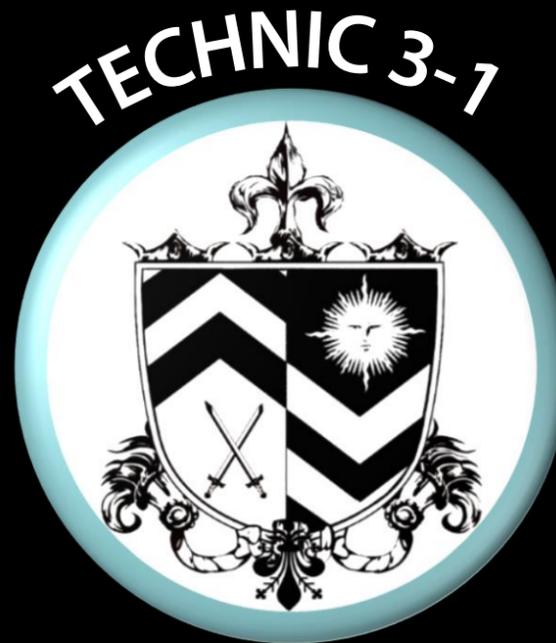


1. ARE THEY FUNCTIONAL ?

# EMOTIONAL VALUE vs FUNCTIONAL VALUE

The Reason We Have Friends





# KEEP THE RIGHT DISTANCE

---

ENSURE PHYSICAL AND MENTAL COMFORTABILITY

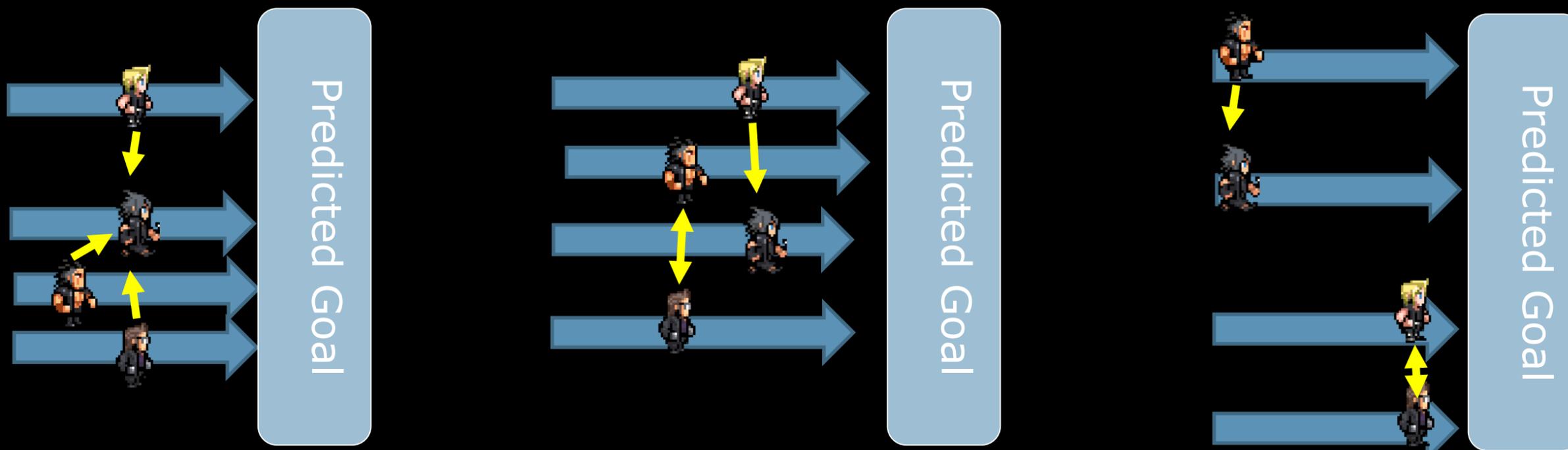
# WALKING TOGETHER

Invest in Sense of Belonging



# WALKING TOGETHER

Invest in Sense of Belonging



Who I want to be with



# CONSCIOUSNESS SIMULATION

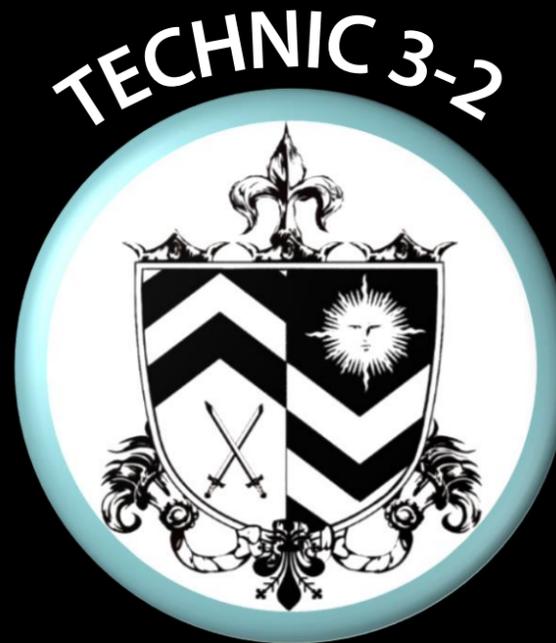
WHAT ARE YOU THINKING?



# MAKE SURE THE PLAYER IS SEEN

MAKE SURE THE PLAYER IS CARED





# INVEST IN VOICE

---

WORDS SPEAK LOUDER THAN ACTIONS

# INVEST IN VOICE

Words Speak Louder than Action

Make them noisy



Say what human should say:  
Greeting/ Gratitude/ Apologize



# EVER PLAYED AN RPG AT YOUR FRIEND'S ?

Utilizing Experience Synchronization & Information Sharing

## Synchronize experience



## Share information



# INTRODUCTION TO "DI-PHONE"

Choosing the Right Conversation to Play

The screenshot shows a spreadsheet application window with a title bar in Japanese. The spreadsheet contains a large table with columns labeled with various codes and names. The data is organized into several distinct sections, each highlighted with a different background color: a blue section at the top, a light green section in the middle, and a yellow section at the bottom. The table rows contain alphanumeric strings, possibly representing item names or conversation IDs, and numerical values. The interface includes a menu bar at the top and a status bar at the bottom.

# INTRODUCTION TO "DI-PHONE"

Balancing Conversation Amount



# PEOPLE WILL TALK ANY TIME ANYWAY

Don't Let the Animation Constraints Prevent You From Playing the Conversation

While standing



While walking



Same conversation results in different animation in different situation. It won't stop the player from playing the game.

# PEOPLE WILL TALK ANY TIME ANYWAY

Don't Let the Animation Constraints Prevent You From Playing the Conversation

## Normal MODE



## WAIT-MODE



## LEAD-MODE



## GO\_TO-MODE



# EVER PLAYED AN MMORPG WITHOUT A KEYBOARD?

Utilizing Non-Verbal Communication



# 4. ARE THEY EMOTIONAL ?

4 Hierarchy of properties for engaging buddy-AI



4. ARE THEY EMOTIONAL?



3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?

# QUALITY TIME

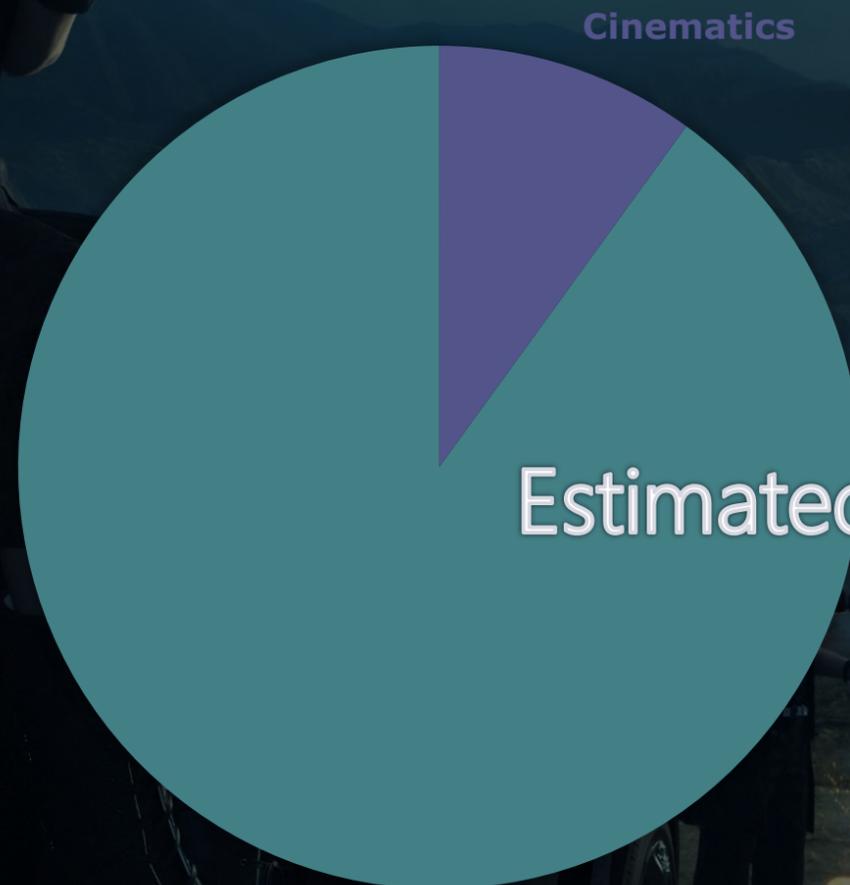
Create an Emotional Pulse



A scene where Prompto confess what inside his mind to Noctis.

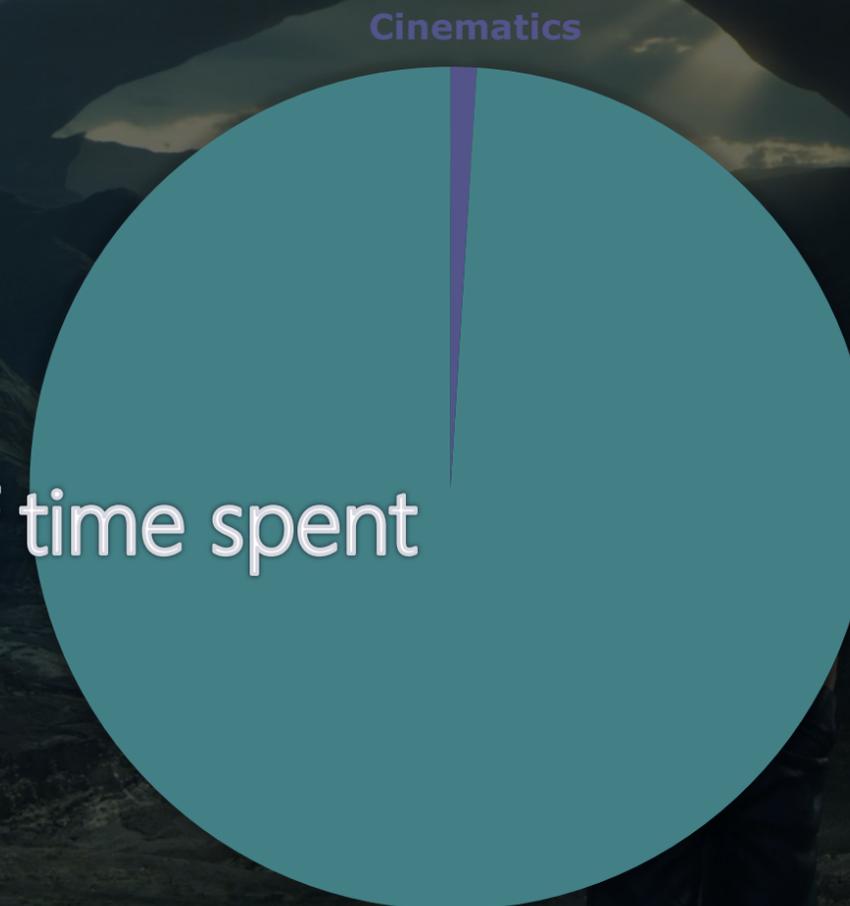
# YOU MEAN, LOTSA CINEMATICS & REAL TIME EVENTS?

LINEAR GAME



Realtime gameplay

OPEN WORLD GAME



Realtime gameplay

Estimated proportion of time spent

TECHNIC 4-7



**SHOW THE PLAYER THEY ARE LIVING CREATURES**

**EXPOSE THEIR WEAKNESS AND EMOTIONS**

# SHOW THE PLAYER THEY ARE LIVING CREATURES

EXPOSE THEIR WEAKNESS AND EMOTIONS



TECHNIC 4-2



# MAKE A CHANGE

---

MAKE THE PLAYERS FEEL THEY GAINED SOMETHING/ LOST SOMETHING

# MAKE A CHANGE

MAKE THE PLAYERS FEEL THEY GAINED SOMETHING/ LOST SOMETHING

TEEN  
PHASE



Talk a lot.  
Talk silly.

PRE-ADULT  
PHASE



Argue.  
Do not talk.

ADULT  
PHASE



Talk less.  
They know what  
others wants  
without talking

# TEEN PHASE



# PRE-ADULT PHASE



# ADULT PHASE



# MAKE A CHANGE

MAKE THE PLAYERS FEEL THEY GAINED SOMETHING/ LOST SOMETHING

TEEN  
PHASE



PRE-ADULT  
PHASE



ADULT  
PHASE



# 4 HIERARCHY OF PROPERTIES FOR ENGAGING BUDDY-AI



**4. ARE THEY EMOTIONAL?**



**3. ARE THEY COMFORTABLE ?**



**2. ARE THEY BELIEVABLE ?**



**1. ARE THEY FUNCTIONAL ?**

# THE TOP OF THE HEIRACHY

“Comfortable” is the Identity of FINAL FANTASY XV’S AI-Buddy



4. ARE THEY EMOTIONAL?



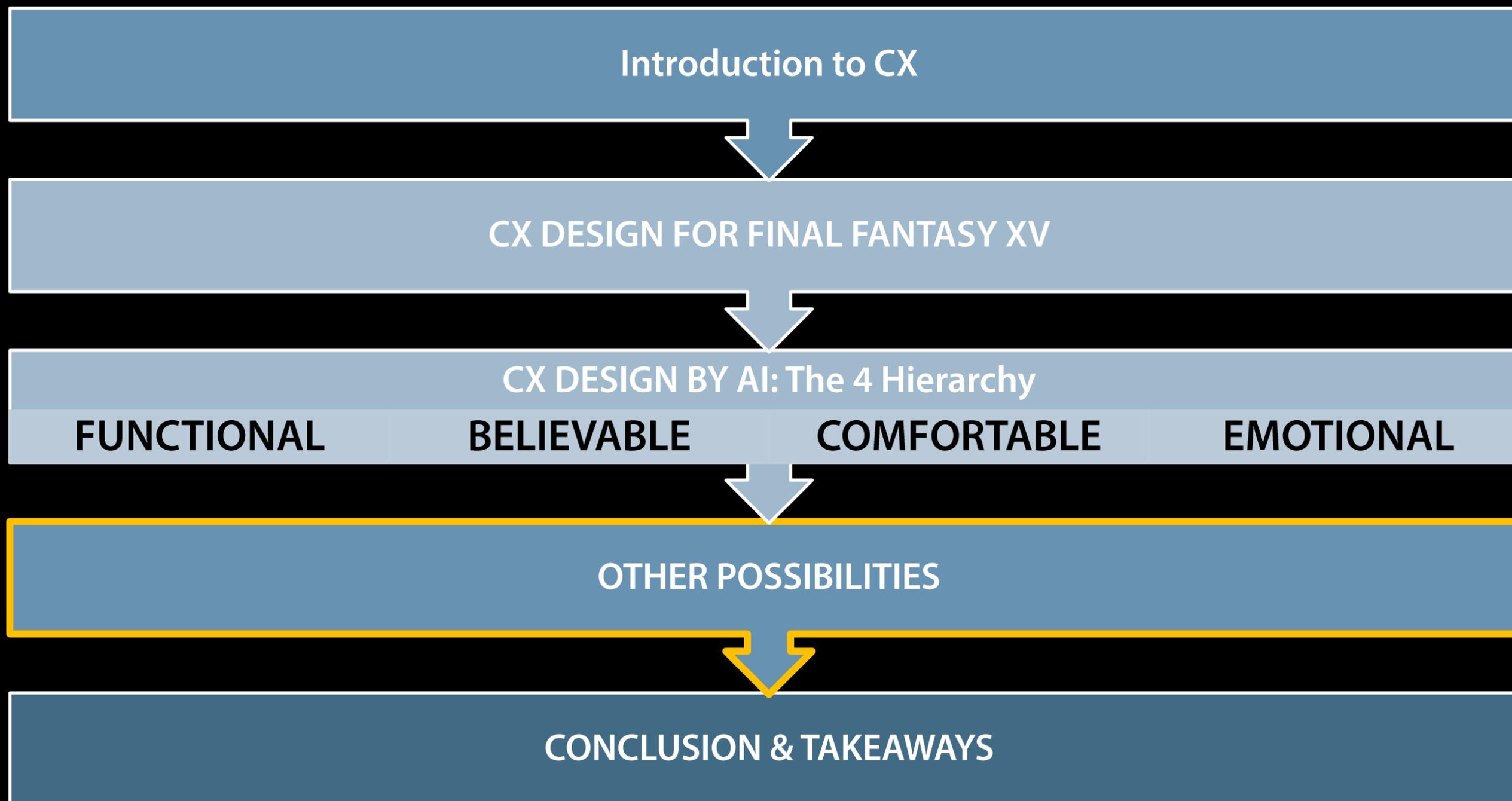
3. ARE THEY COMFORTABLE ?



2. ARE THEY BELIEVABLE ?



1. ARE THEY FUNCTIONAL ?



# OTHER CX DESIGN POSSIBILITIES

Why We Didn't Do What We Didn't Do



# WHY DIDN'T WE HAVE A FRIENDSHIP POINT?

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Because Instead of Treating Them As Friends, The Player Would Treat Them As A Tool To Complete the Game

# WHY DIDN'T WE HAVE A CHAT BUTTON?

Because Instead of Treating Them As Friends, The Player Would Feel That Talking To Them Is a Task

# WHY DIDN'T WE HAVE A LEARNING AI?

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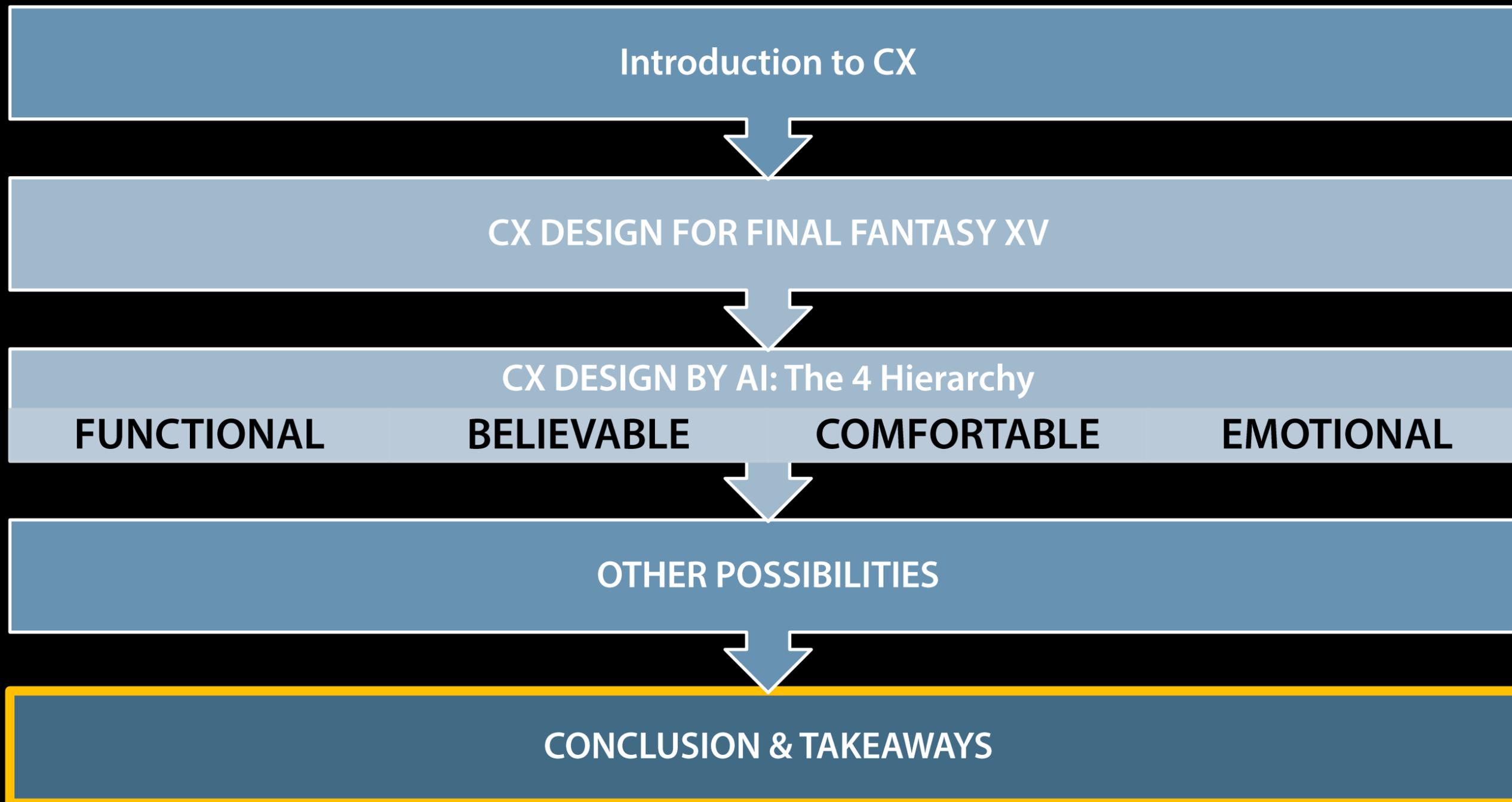
Because Instead of Treating Them As Friends, The Player Would Treat Them As AI!



# DON'T LET SYSTEMS RUIN YOUR CX

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WHAT WORKS FOR OTHER GAMES MIGHT NOT WORKS FOR YOU



# CONCLUSIONS & TAKEAWAYS



# THEY WALKED TALL

They Gives Life to FINAL FANTASY XV

651 people found this review helpful  
1,148 people found this review funny



Recommended  
3.7 hrs on record

Posted: 7 March

This game makes me feel like I have friends.

A review for FINAL FANTASY XV WINDOWS EDITION on Steam

<https://steamcommunity.com/id/lunarshards/recommended/637650/>

# 4 HIERARCHY OF PROPERTIES FOR ENGAGING BUDDY-AI



**4. ARE THEY EMOTIONAL?**

- ◆ EXPOSURE
- ◆ CHANGE



**3. ARE THEY COMFORTABLE ?**

- ◆ DISTANCE
- ◆ VOICE



**2. ARE THEY BELIEVABLE ?**

- ◆ MAGIC
- ◆ ANIMATION



**1. ARE THEY FUNCTIONAL ?**

- ◆ VISUALIZATION

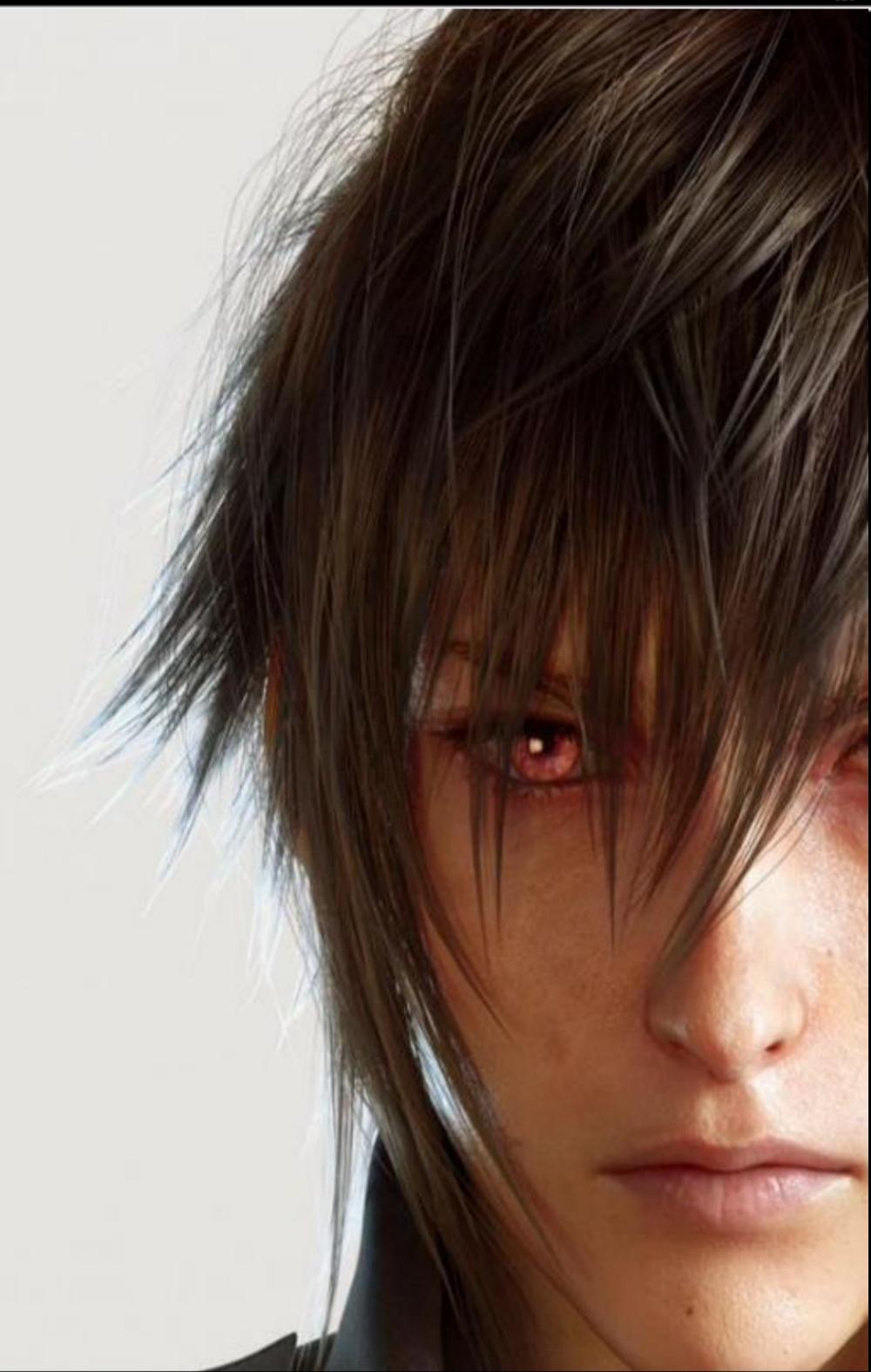


# GET YOUR TEAM TO CARE ABOUT CX

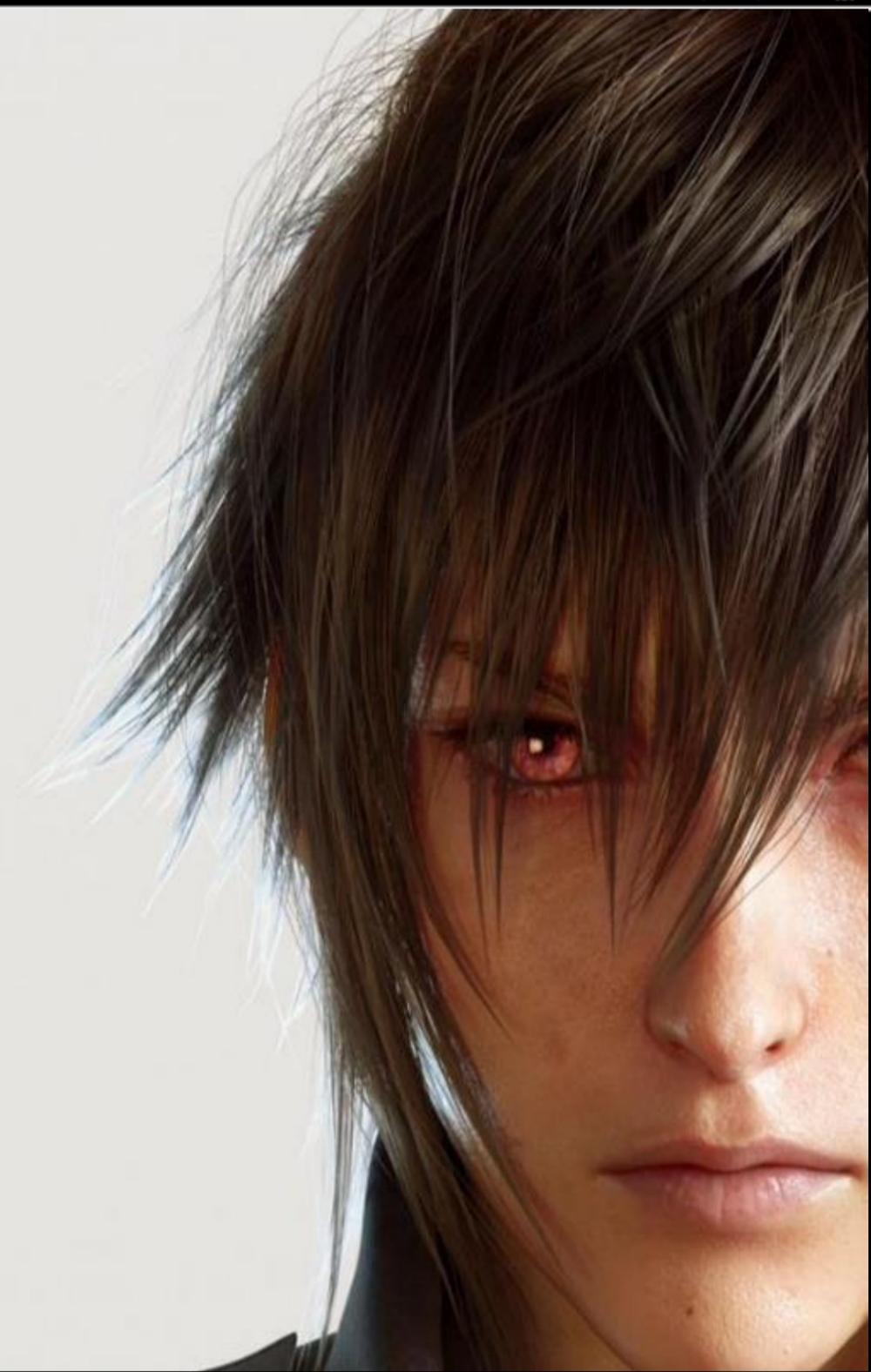
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EARN CONCERN & COOPERATION

# WHO IS IN CHARGE OF CHARACTER DESIGN?



YOU!



# OUR JOURNEY CONTINUES

WE'RE WORKING ON AN UNSEEN AI



## Contact Me

 [prasertv@square-enix.com](mailto:prasertv@square-enix.com)

 [SuntimentalMood](#)

We are looking for engineers & AI designers...

 [SQEXBD2-INQ@square-enix.com](mailto:SQEXBD2-INQ@square-enix.com)

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